Alaskan Way Viaduct & Seawall Replacement Program





Central Waterfront Summary Comparison of Potential Scenarios Draft August 28, 2008

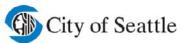
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Building Blocks	A: Demand Mgmt. & Low Capital	B: Surface Blvd. & Transit	C: Alaskan & Western Couplet	D: 4-Lane Elevated	E: 4-Lane Integrated Elevated	F: 4-Lane Bored Tunnel	G: 4-Lane Cut and Cover Tunnel	H: 4-Lane Lidded Trench
SR 99								
Central Waterfront configuration and lanes	4-lane surface street	4-lane surface street	6-lane surface street (3 lanes on Alaskan Way; 3 lanes on Western Ave.)	4-lane elevated road; 4-lane surface street	4-lane elevated road; 4-lane surface street (2 lanes Alaskan Way, 2 lanes Western Ave.)	4-lane tunnel; 4-lane surface street (2 lanes Alaskan Way, 2 lanes Western Ave.)	4-lane tunnel and 4-lane surface street	4-lane lidded trench and 4-lane surface street
Central waterfront promenade/public space	52 – 86 feet	76 – 86 feet	80 – 114 feet	20 – 70 feet	45 – 135 feet	80 – 114 feet	52 – 86 feet	40 – 80 feet
Connections to Elliott and Western avenues	Signalized intersection to Alaskan Way surface boulevard	Signalized intersection to Alaskan Way surface boulevard	Signalized intersections to Alaskan/Western couplet	Ramps to and from elevated structure over Elliott and Western	Ramps to and from elevated structure over Elliott and Western	Signalized intersections to Alaskan/Western couplet	Ramp connections to and from underpass of Elliott and Western	Signalized intersections to lidded trench on waterfront
Battery Street Tunnel capacity reduction	None	None	None	None	None	Reduced to one lane in each direction	Southbound reduced to one lane	None
Freight routes	Surface Alaskan Way	Surface Alaskan Way	Surface Alaskan Way and Western Ave.	Elevated road and surface Alaskan Way	Elevated; surface Alaskan Way (hazardous and combustible cargo route to be determined)	Tunnel (except hazardous and combustible cargo); Alaskan Way, Western Ave.	Tunnel (except hazardous and combustible cargo); surface Alaskan Way	Lidded trench; surface Alaskan Way (hazardous and combustible cargo route to be determined)
HOV/BAT/Transit Lanes	Thomas St to N. 85 th St. and Spokane to Washington Streets	Denny Way to N. 205 th St. and Spokane to Washington Streets	Denny Way to N. 205 th St. and Spokane to Washington Streets	Thomas St to N. 85 th St. and Spokane to Washington Streets	Thomas St to N. 85 th St. and Spokane to Washington Streets	Thomas St to N. 85 th St. and Spokane to Washington Streets	Thomas St to N. 85 th St. and Spokane to Washington streets	Thomas St to N. 85 th St. and Spokane to Washington streets
Seawall Replacement								
Rebuild seawall from Washington to Pine (Phase 1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
I-5								
Active traffic management, automate reversible lanes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Northbound mainline	Add transit lane from Olive Way to SR 520	Add managed lane from Seneca St. to SR 520	Add managed lane from Seneca St. to SR 520	Add managed lane from Seneca St. to SR 520	Add transit lane from Olive Way to SR 520	Add transit lane from Olive Way to SR 520	Add managed lane from Seneca St. to SR 520	Add managed lane from Seneca St. to SR 520
Southbound HOV lane from Mercer to Spokane Street	Convert to managed lane	Convert to managed lane	Convert to managed lane	Convert to managed lane	No change	No change	Convert to managed lane	Convert to managed lane
Stewart Street and Cherry/Columbia Streets reversible ramps	No change	Convert Stewart to HOV and Cherry/ Columbia to general purpose traffic	No change	Convert Stewart to HOV and Cherry/ Columbia to general purpose traffic	No change	No change	Convert Stewart to HOV and Cherry/ Columbia to general purpose traffic	No change
Industrial Way transit ramps	No	North and south	North bound only	No	North bound only	No	No	North and south
Surface Streets								
Two-way Mercer Street from I-5 to Elliott Avenue	4-lane SR 99 underpass	6-lane SR 99 underpass	4-lane SR 99 underpass	4-lane SR 99 underpass	4-lane SR 99 underpass	6-lane SR 99 underpass	6-lane SR 99 underpass	6-lane SR 99 underpass
Aurora Avenue crossings	Signalized crossings at Thomas, Harrison, Republican, Roy, Valley	Signalized crossings at Thomas, Harrison, Republican, Roy	Signalized crossings at Thomas, Harrison, Republican, Roy, Valley	Republican Street underpass	Republican Street underpass	Signalized crossings at Thomas and Harrison	Republican Street underpass	Signalized crossings at Thomas, Harrison, Republican, Roy
Transit lanes on Stewart, Olive, Howell, Pike/Pine, and Elliott/15 th Ave. NW	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional transit lanes	Battery, Wall, Fourth Ave S, Madison, Fifth Ave	First Ave S, Battery, Wall, Fourth Ave S, Madison, Marion, Fifth Ave	First Ave S, Battery, Wall, Fourth Ave S, Madison, Fifth Ave	No	No	Fifth Ave	No	Fifth Ave

Scenario Matrix 1

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Other street and roadway	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR	Spokane St. Viaduct, SR
improvements	519, East Marginal Way	519, East Marginal Way	519, East Marginal Way	519, East Marginal Way	519, East Marginal Way	519, East Marginal Way	519, East Marginal Way	519, East Marginal Way
Second and Fourth Avenue.	3 general purpose and 2	4 general purpose and 1	4 general purpose and 1	3 general purpose, 1	3 general purpose, 1	3 general purpose, 1	3 general purpose, 1	3 general purpose, 1
from Pike to Jackson Street	transit lanes	transit lanes	transit lane	transit, and 1 bicycle lane	transit, and 1 bicycle lane	transit, and 1 bicycle lane	transit, and 1 bicycle lane	transit, and 1 bicycle lane
Qwest Field north lot arterial	No	New one-way street as couplet with Fourth Ave.	New two-way street	No	No	No	No	No
Third Ave. through traffic restrictions all day	Yes	Yes	Yes	No	No	No	No	No
Convert east-west streets to three lanes	Spring, Seneca, Union, University, Marion, Madison, Cherry, and Columbia	Spring, Seneca, Union, University, Marion, Madison, Cherry, and Columbia	Spring, Seneca, Union, University, Marion, Madison, Cherry, and Columbia	No	No	No	No	No
Large trucks allowed on Second and Fourth aves.	Yes	Yes	No	No	No	No	No	No
Convert First Ave. to four lanes during peak periods	King to Cherry Street	King to Cherry Street	King to Cherry Street	King to Cherry Street	King to Cherry Street	No	King to Cherry Street	King to Cherry Street
Transit								
Improve service to waterfront on Madison St., simplify downtown network, reduce traffic conflicts with stops	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rapid trolley network improvements	Medium	High	High	Low	Low	Low	Low	Low
Ballard/Uptown, Aurora, West Seattle RapidRide	Enhanced service	Enhanced service	Enhanced service	No change	No change	No change	No change	No change
Pacific Hwy South RapidRide	No change	Enhanced service	Enhanced service	No change	No change	No change	No change	No change
New Delridge RapidRide	Yes	Yes	Yes	Yes	Yes	No	No	Yes
New Ballard to UW RapidRide	No	Yes	Yes	No	No	No	No	No
New Lake City Way RapidRide	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Alaskan Way streetcar	Yes	No	Yes	Yes	No	Yes	Yes	Yes
First Avenue streetcar	No	Yes	Yes	No	Yes	No	Yes	No
Ballard, Fremont and University District streetcar	No	Yes	No	No	No	No	No	No
New greater downtown neighborhood peak express service	No	Yes	Yes	No	No	Yes	No	Yes
West Seattle water transit	No change	Enhanced Service	Enhanced service	No change	No change	No change	No change	No change
Burien, White Center, Shoreline, Lake Forest Park park and ride expansion	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Policies and Management								
Demand management	Maximum	Moderate	Moderate	Moderate	Moderate		Moderate	Moderate
Pricing and tolling		Rev	view findings of PSRC regiona	al studies of tolling and pricing	concepts. Results may be i	ncorporated in select scenario	os.	





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Pedestrian								
Marion St. bridge	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Harrison St. bridge over I-5	No	Yes	No	No	No	No	No	No
Improved east-west connections to waterfront	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
New or improved connections across Aurora Ave. north of Denny Way	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Improved connection on Bell St. between Ninth and Elliott aves.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overpass/underpass sidewalk addition/widening across I-5 at James, Madison, Pine, Denny	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
King Street Station, Westlake Center, and Colman Dock pedestrian improvements	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bicycle								
Lanes/trails on Alaskan Way and/or Western Ave. between Broad and King sts.	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Lanes/trails connecting Alaskan Way to East Marginal Way lane and Mountain to Sound Greenway trail	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lane on Fourth Ave. between Yesler Way and Spring St.	No	No	No	Yes	Yes	Yes	Yes	Yes
Lane on Roy/Valley St. between Lake Union Park and Queen Anne Ave.	Yes	Yes	Yes	No	No	No	No	Yes
Lane on Roy/Valley St. between Fairview and Dexter aves.; on Mercer St. between Dexter and Taylor aves.; on Roy St. between Taylor and Queen Anne aves.	No	No	No	Yes	No	Yes	Yes	No
Lane eastbound on Pine St. between Eighth Ave. and Broadway	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Thomas St. overpass connecting Uptown to Myrtle Edwards Park (Elliott Bay Trail)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Royal Brougham overpass bike lanes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Implementation of other Bicycle Master Plan elements in Center City	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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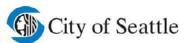
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	Transportation Demand and System Management Building Blocks						
Element	Baseline Builds on existing programs	Moderate Additions to Baseline May require change in policy and/or legislation	Maximum Additions to Moderate May require significant change in policy and/or legislative action Demand Management and Low Capital Scenario				
	Four-Lane Bored Tunnel Scenario	All Other Scenarios					
Parking Management	 Planned parking programs in Center City neighborhoods "Performance-based" pricing Encourage shared parking Shared parking at transit station 	 Variable pricing for Center City curb spaces Increase parking enforcement Paid parking at high volume transit stations Discourage "early bird" parking Priority parking for vanpools 	 Price parking by real time demand Tax all parking spaces including "free" spaces to discourage peak hour and long term use Eliminate all-day parking incentives 				
Parking Supply	Parking maximums on Center City commercial developmentSupport car-sharing	 Bonuses for unbundled parking Parking maximums for downtown residential development 	Require unbundling and cash-outDistrict-wide parking caps				
Bicycle and Pedestrian	 Implement priority bike/ped projects Increase outreach Bike commuter training 	 Additional bike and pedestrian projects Require bike parking Encourage showers and lockers Add downtown bike station Bike load/unload in free-ride zone trial 	 Require showers and lockers Additional bike/ped projects Add central waterfront bike/ped bridges Bike-sharing program 				
Transit, Carpool, and Vanpool	 Implement SMART cards, encourage employer distribution West Seattle shared transit parking Implement LINK TDM program 	 Require universal transit passes (new development) Expand Guaranteed Ride Home Simplified regional fare structure Later express bus/ferry service Eliminate auto incentives on ferries Expand real-time arrival information Rideshare Online system 	 "One-stop shopping" for TDM Required passes (all business) Downtown-wide free Guaranteed Ride Home Major transit service expansion 				
Land Use	Emphasize transit oriented development at RapidRide stations Emphasize jobs/housing balance and include affordability	 Transit-oriented development at large redevelopment sites ("7 acres" in W. Seattle) Support transit-oriented development at park-and-ride sites 	 Convention Place transit-oriented development Density, walkability and transit bonuses 				
Employer-Based Strategies	 Expand employer-based Growth and Transportation Efficiency Centers Flex Pass/Passport incentives Encourage telework Encourage flexible work hours 	 Further expansion of Growth and Transportation Efficiency Centers Expand TDM to building owners Expand Metro vanpool Market incentives for SOV trip reduction 	 One-stop shopping for Employer Transportation Centers Maximum incentives for all downtown employees Community telework sites 				
Educational and Policy	 TDM branding Increase existing outreach and incentives Measure TDM performance 	 "Roving show" for businesses Eliminate tax on car-sharing Curb spaces for car-sharing Encourage taxi use through regulation Ongoing customer research 	 Expand car-share locations Require car-share spaces in new development "Flat rate zone" for taxis Encourage shared taxis 				
Systems Management	Implement parking guidance system Implement 511 information next steps	 Improve incidence response system Fund next-generation 511 Variable message sign transit times Mobility options outreach to tourists Loading zone, transit lane towing Prioritize through traffic in special events management 	 New signals to maximize flow Additional automated management Ramp queue jumps for transit, goods Multiple-platform 511 Multimedia real-time arrival info Automated incident notification Make driving costs visible w/ technology Photo bus lane enforcement 				







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Pricing and Tolling Concepts

May be applied to any of the scenarios, depending on results from PSRC Studies expected in July 2008

As part of the Destination 2030 Update, the Puget Sound Regional Council (PSRC) is completing analysis of regional tolling concepts (Central Puget Sound Region Pricing Task Force). This work includes evaluating five general regional tolling concepts, two of which may have applicability to the Central Waterfront, as follows:

Selected Facility Tolling

- HOT lane network
- Additional freeway network segments

Area Pricing/Parking Charges

• Cordon tolls in high intensity centers (Seattle, Bellevue) and parking charges in lower intensity centers

Scenario Matrix 4